AIA File No. 8C

LITHOCRETE

REINFORCED

CAST STONE

IN NATURAL COLORS

Plant of W. N. Russell & Co.

W. N. RUSSELL & CO.

WESTMONT, NEW JERSEY

AIA File No. 8C

SPECIFICATIONS FOR CAST STONE

WORK INCLUDED

This specification covers all labor, materials and services incidental to and including the furnishing and erecting of all cast stone as indicated on the drawings and specified herein.

DIVISION OF WORK

The Manufacturer shall be responsible for all labor, material, equipment and services necessary for and incidental to providing all cast stone covered by this specification.
The Erecting Contractor shall unload, receipt for, store and erect all cast stone covered by this specification and shall provide and install all anchors for same.

DRAWINGS AND DETAILS

Scale and detail drawings will be furnished where necessary by the Architects and they shall be accurately followed in the execution of this work.
The Manufacturer shall prepare complete shop drawings and setting diagrams for all cast stone work, showing sizes, sections and dimensions of pieces, jointing, bonding, anchoring, and all other necessary details. Each piece of cast stone shall have a setting number.
Copies of all shop drawings shall be submitted to the Architects, one set to be approved by the Architects in writing thereon and returned to the Manufacturer before the manufacture of cast stone is started.
The General Contractor shall furnish to the Cast Stone Manufacturer all information necessary to enable the Cast Stone Manufacturer to properly check the cast stone with connecting structural work to insure that these shall be in perfect agreement.
Reglets, Rabbets, Slots, etc., as shown by the Architects' drawings shall be provided in cast stone to receive all flashing, sheet metal work, or other work which comes in conjunction with the cast stone.
Setting loops or Lewis holes shall be provided in the cast stone where necessary for hoisting purposes.

KIND AND FINISH

All cast stone used in this work shall be the product of a manufacturer having facilities and capacity for furnishing the quality, sizes and quantities of cast stone required without delaying the progress of the work and whose products have been previously used and exposed to the weather with satisfactory results.
All cast stone used in this work shall have a compressive strength of at least 5,000 lbs. per sq. in. and an absorption of not more than 8% nor less than 3% when tested in accordance with the American Concrete Institute tentative specification for cast stone (P-3-A-29T).
All cast stone used in this work shall be Lithocrete Cast Stone as manufactured by W. N. Russell & Co., of Westmont, New Jersey, or equal as approved. (Note: Select finish and texture from opposite page. Architect desiring color, finish or texture not shown may secure the desired sample from W. N. Russell & Co., Westmont, New Jersey.)
Each manufacturer bidding under this specification shall submit samples showing the quality and finish of the cast stone which he proposes to furnish. All cast stone used in this work shall conform in every particular to the sample as selected by the Architects.

MODELS AND CARVING

Clay or plaster models of all ornaments shall be provided by the Manufacturer and shall be approved by the Architects before any work is executed therefrom.

CURING

Cast stone shall be thoroughly cured and seasoned, and shall have attained the specified strength and density before being delivered to the building site. No cast stone shall be delivered before it is twenty-eight days old.

TESTS

The Architects shall have the privilege of selecting pieces of cast stone at random for testing. Tests shall be made by a laboratory approved by both the Architects and the Manufacturer.

HANDLING AND STORING AT SITE

All cast stone when being removed from cars or trucks shall be handled throughout by competent workmen and by such methods as will guard against soiling, mutilation or chipping.
The cast stone shall be stored at the building site, for whatever time, in such a manner that it rests entirely clear of the ground and be protected by proper means from damage to arrises and from contact with anything that would result in damage from accumulation of dirt, dust, grease or other staining or disfiguring elements. During extended periods of storage at the building site, the cast stone shall be covered completely with tarpaulins or stout non-staining paper.

SETTING MORTAR

All cast stone shall be set in mortar composed of one volume portland cement, one volume cold lime putty and five volumes sand. Lime putty shall be made from the best quality lump lime slaked with cold water, screened through a 3/16 inch mesh screen into a settling box, allowed to stand not less than one week and then mixed with sand and stacked to age. The correct amount of cement shall be thoroughly worked into the mixture in small batches just prior to its use for setting the cast stone.

ANCHORS

All anchors used in setting this cast stone shall be wrought iron, zinc coated or dipped in asphaltum or red lead after fabrication.

SETTING

The Erecting Contractor shall set the cast stone in accordance with the requirements of the drawings. All exposed surfaces of cast stone shall be cleaned and the mortar surfaces of each piece shall be sponged with clean water just before setting. Each piece shall be set accurately, with full flushed joints, by competent stone setters.
Pieces of cast stone in heavy projecting courses and other heavy projecting members shall be propped up until the anchoring has been built in and sufficient work is in place above to securely hold such members in position. The use of pinch bars, except on the backs of cast stone, shall be prohibited. Each piece of cast stone, except where otherwise specified, shall rest on a full bed of mortar. All holes around anchors and dowels shall be entirely filled with setting mortar. Joints shall be raked out ¾ inch deep on the face for pointing.

GROUTING AND CAULKING

All cornices, copings and projecting belt courses and pieces forming gutters shall be set with the vertical joints dry. These joints shall be caulked on the exterior profile with oakum and shall then be filled to within ¾ inch of the top with liquid grout composed of one volume portland cement and one volume of fine sand premixed at least one hour before being used and of as thick consistency as can be poured into the joints. After grout has thoroughly set the top joint shall be filled with Pecora Knife Caulking Compound caulked tightly against the edges and left slightly convex on top, or with an approved elastic caulking compound. Oakum shall be removed and the face joints pointed as hereinafter specified.

PROTECTION

All cast stone work after setting shall be properly protected from damage by means of boards or other suitable covering, where necessary, until completion of the work. The Erecting Contractor shall cooperate with the Carpentry Contractor who will furnish and erect the necessary protection for this work. The Erecting Contractor shall be responsible for all breakage and shall replace all broken pieces at his own expense.

CLEANING

When ready for pointing, the face of all cast stone shall be scrubbed with a fiber brush, using soap powder and water, and shall then be thoroughly rinsed with clean water. Any mortar splashed or dropped on the face of cast stone during setting shall be immediately washed off with a sponge and clean water.

POINTING

All face joints shall be brushed out clean to a depth of ¾ inch, the joint dampened and then carefully pointed. The form of the joint shall be as directed by the Architect. Pointing shall not be done in freezing weather nor in locations exposed to hot sunshine unless properly protected.

PATCHING

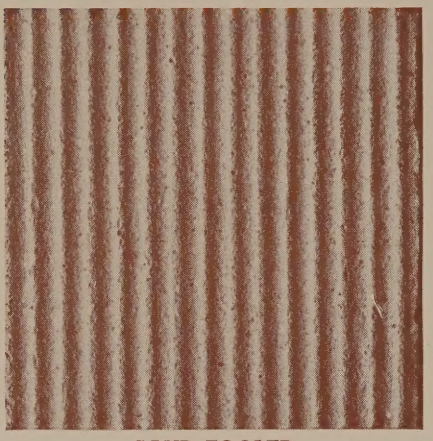
The repairing of chipped or damaged cast stone shall be done only by mechanics skilled in this class of work, with materials furnished by this Manufacturer and according to his directions.

Beautify with Cast Stone

LIMESTONES

SAND FINISH

Base Price

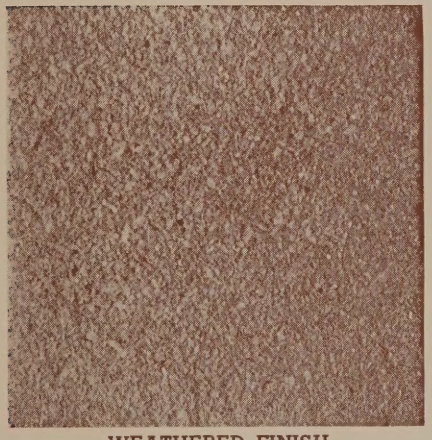


SAND TOOLED

Add 5% to Base Price

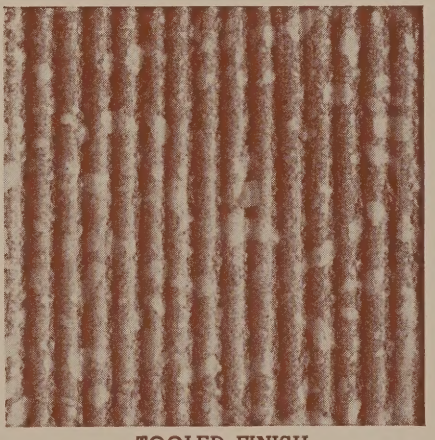
SAND RUBBED

Add 4% to Base Price



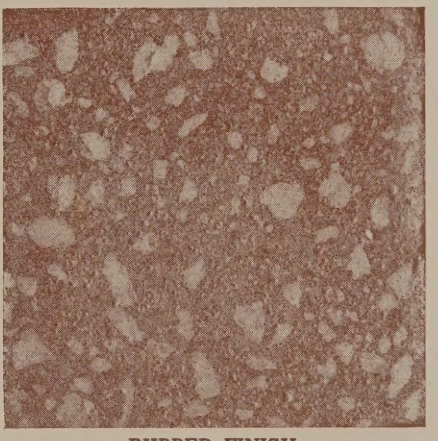
WEATHERED FINISH

Add 8% to Base Price



TOOLED FINISH

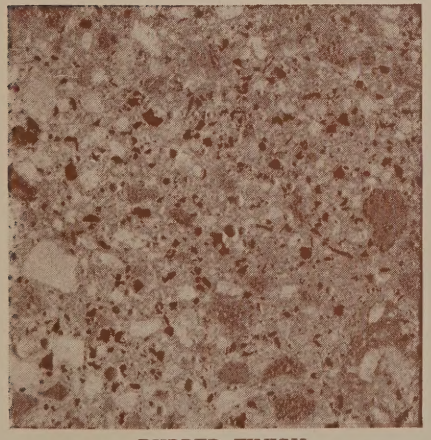
Add 20% to Base Price



RUBBED FINISH

Add 10% to Base Price

GRANITES



RUBBED FINISH

Add 15% to Base Price

TOOLED FINISH

Add 25% to Base Price

BUSH HAMMERED

Add 20% to Base Price

SAMPLES OF BRIAR HILL, ANTIQUE, TRAVERTINE, JOAN DE ARC, ETC., SENT ON REQUEST

AVERY CLASSICS

Cast Stone on 69th St. Terminal, Phila., Pa., Furnished by W. N. Russell & Co.